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(54) FLAME RESISTING CELLULOSE MATERIAL

(57) Abstract:

PURPOSE: To impart a flame-resistivity to heat-insulating material made of cellulose fibre, by contacting borax or boric acid attached to the surface of said heat-insulating material with a particular amount of resin that causes gelation in contact with borax or boric acid.

CONSTITUTION: After more than 5% of inorganic flame-resisting material containing borax or boric acid is attached over the surface of a heat-insulating material made of cellulose fibre such as pulp and paper, a resin such as copolymer of PVA, PVAC, E/VAC that causes gelation in contact with borax or borix acid is contacted with the heat-insulating material in the state of aqueous solution or emulsion liquid so as to coat the resin over the surface of said heat-resisting material. It is preferable here that amount of said resin attached over the surface of heat-resisting material is in the range of 2W50% to the amount of cellulose fibre and amount of borax or boric acid is more than 10% to the amount of the resin. When the resin is dried, it is attached tightly to the cellulose fibre of the inorganic flame-resisting material, so that there is no fear of the resin to be separated due to vibration or other. Thus, flame-resisting performance of the heat-insulating material can be improved remarkably.